

ABSTRACT

A wind power generator 10 comprising a frame 11, an impeller 12 supported rotatably by the frame, power generators 34 driven to rotate by the impeller, 5 and a controller 40 for selecting some ones from among transmission wires 36, 37 led from the power generators 34 by connect/disconnect them. The impeller 12 is supported by a vertically extending shaft 22, to which a main gear 31 is connected. The frame 11 has rotatable sub gears 32 meshed with the main gear 31, and the shafts 34 of the sub gears 32 are connected to the 10 power generators 34. The controller 40 has a rotation sensor 41 for sensing the wind velocity or the rotational speed of the impeller, and disconnects the transmission wires 36,37 when the rotational speed decreases, thereby reducing the number of power generators 34 being operating.